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"Providing Tomorrow's Analytical Capabilities Today"

Certificate of Analysis 5092380

Mark Peacock
Duke Energy - Edwardsport IGCC
15424 State Road 358
Edwardsport IN, 47528

Customer ID: DU2303
Report Printed: 09/22/2015 08:54

Project Name: Grey Water Process Control

Workorder: 5092380

Dear Mark Peacock

Enclosed are the analytical results for samples received at one of our laboratories on 09/15/2015 12:53.

McCoy & McCoy Laboratories, Inc. and Environmental Certification Labs are commercial laboratories accredited by various state and national authorities, including Indiana, Kentucky, Tennessee, and Virginia's National Environmental Laboratory Accreditation Program (NELAP). With the NELAP accreditation, applicable test results are certified to meet the requirements of the National Environmental Laboratory Accreditation Program.

If you have any questions concerning this report please contact the individual listed below.

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#460210
Madisonville

Doug Wolfe

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Doug Wolfe For Syd Tate, Data Reviewer

SAMPLE SUMMARY

Lab ID	Client Sample ID/Alias	Matrix	Date Collected	Date Received	Sampled By
5092380-01	Filtered Water/20150915-031	Wastewater	09/15/2015 08:20	09/15/2015 12:53	Diana Reedy
5092380-02	Greywater Influent/20150915-033	Wastewater	09/15/2015 08:10	09/15/2015 12:53	Diana Reedy
5092380-03	Greywater In Process/20150915-032	Wastewater	09/15/2015 08:15	09/15/2015 12:53	Diana Reedy

ANALYTICAL RESULTS

Lab Sample ID: **5092380-01**

Description: **Filtered Water 20150915-031**

Sample Collection Date Time: 09/15/2015 08:20

Sample Received Date Time: 09/15/2015 12:53

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Dissolved Solids	120		mg/L	10.0	10.0	2540 C-1997	09/17/2015 09:00	09/17/2015 11:14	dsb

ANALYTICAL RESULTS

Lab Sample ID: **5092380-02**

Description: **Greywater Influent 20150915-033**

Sample Collection Date Time: 09/15/2015 08:10

Sample Received Date Time: 09/15/2015 12:53

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Dissolved Solids	2560		mg/L	10.0	10.0	2540 C-1997	09/17/2015 09:00	09/17/2015 11:16	dsb

ANALYTICAL RESULTS

Lab Sample ID: **5092380-03**

Description: **Greywater In Process 20150915-032**

Sample Collection Date Time: 09/15/2015 08:15

Sample Received Date Time: 09/15/2015 12:53

Conventional Chemistry Analyses Farmersburg

Analyte	Result	Flag	Units	MRL	MDL	Method	Prepared	Analyzed	Analyst
Total Dissolved Solids	ND	u	mg/L	10.0	10.0	2540 C-1997	09/17/2015 09:00	09/17/2015 11:18	dsb



Notes for work order 5092380

- Samples collected by MMLI personnel are done so in accordance with procedures set forth in MMLI field services SOPs.
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identification based on the presumptive evidence of the mass spectra.

U Target analyte was analyzed for, but was below detection limit (the value associated with the qualifier is the laboratory method detection limit in our LIMS system).

Standard Qualifiers/Acronyms

MDL	Method Detection Limit
MRL	Minimum Reporting Limit
ND	Not Detected
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
% Rec	Percent Recovery
RPD	Relative Percent Difference
>	Greater than
<	Less than

Sample Acceptance Checklist for Work Order 5092380

Shipped By: MMLI

Temperature: 8.00° Celcius

Condition

Custody seals present/intact?	<input type="checkbox"/>
Were any containers received damaged?	<input type="checkbox"/>
COC submitted and complete?	<input checked="" type="checkbox"/>
COC agree with sample labels?	<input checked="" type="checkbox"/>
All containers listed on COC received?	<input checked="" type="checkbox"/>
Were all samples in appropriate containers?	<input checked="" type="checkbox"/>
Did all samples have appropriate volumes?	<input checked="" type="checkbox"/>
Were collection methods recorded on COC?	<input checked="" type="checkbox"/>
Were flow units recorded on COC?	<input type="checkbox"/>
Any headspace issues with volatile samples?	<input type="checkbox"/>
Were all holding times acceptable?	<input checked="" type="checkbox"/>
Were preserved samples within acceptable pH range?	<input type="checkbox"/>
Were preserved samples within acceptable Cl2 range	<input type="checkbox"/>

Chain of Custody

Scheduled for: **09/22/2015**



Client: **Duke Energy - Edwardsport IGCC**

Report To:

Duke Energy - Edwardsport IGCC

Invoice To:

Duke Energy - Edwardsport IGCC

Project: **Grey Water Process Control**

Mark Peacock

15424 State Road 358

Edwardsport, IN 47528

Mail Drop WP941

1000 E Main St.

Plainfield, IN 46168

Phone: (812) 735-8583

PWS ID#:

State:

PO#:

Quote#

Please Print Legibly

Collected by (Signature):

Olivia Reedy
required information

Compliance Monitoring? Yes ☐ No ☒

Samples Chlorinated? Yes ☐ No ☒

*For composite samples please indicate begin time, end time and temp(oC) at end time below:

Influent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

Effluent: Start Date _____ Start time _____ End Date _____ End Time _____ Temp (oC) _____

MMLI USE ONLY *required information*

Workorder #

5092380

Sample ID#

Date

(mm/dd/yy):

Collection

Time (24 hr):

Bottle and Preservative

Containers

Sample Description

Composite

Sample Analysis Requested

5092380-01 A

09-15-15 0520

Plastic 1L Outer Office

1

Filtered Water

G/c

TDS Fmb

20150915-031

5092380-02 A

09-15-15 0810

Plastic 1L Outer Office

1

Greywater Influent

G/c

TDS Fmb

20150915-033

5092380-03 A

09-15-15 0815

Plastic 1L Outer Office

1

Greywater In Process

G/c

TDS Fmb

20150915-032

Preservation Check Performed by: _____

Field data collected by: _____

Date (mm/dd/yy) _____

Time (24 hr) _____

pH _____

Cond (umho) _____

Res Cl (mg/L) _____

Tot Cl (mg/L) _____

Free Cl (mg/L) _____

Temp (oC) _____

or

(oF) _____

Static Water Level _____

DO (mg/L) _____

Turb. (NTU) _____

Flow (MGD) _____

or

(CFS) _____

or

(g/min) _____

Relinquished by: (Signature)

Received by: (Signature)

Date (mm/dd/yy)

Time (24 hr)

Olivia Reedy

Tatiana Ruiz
Michelle Sharp

9-15-15

10:32

9-15-15

12:53



MMLI - Check here if trip charge applied to associated COC

Printed: 9/14/2015 4:51:00PM

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